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L1: (102117) disk adj1 drive

L2: (2987) write with read with offset

L3: (16663) pitch with track

L4: (4170) servo adj1 track

L5: (1066) burst adj1 pattern

L6: (9076) head adj1 slider

L7: (23) 1 same 2 same 3

Failed

Saved

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	U	I	Document ID	Issue Date	Pages	Title	Current OR	Current XBR	Retrieval C	Inventor	S	C	V						
6	P		US 20030002197 A1	20030102		Optimal reader-to-writer offset measurement of a head	360/76	360/31;		Seng, Edmund Chian Song et al.									
7	P		US 20020176199 A1	20021128		Track pitch control using head offset measurement for	360/75	360/76		Gomez, Kevin Arthur et al.									
8	P		US 20020085305 A1	20020704		Method and apparatus for disk drive seek control	360/78.14			Asano, Hideo et al.									
9	P		US 6873468 B2	20050329		Enhanced MR offset with dynamic tuning range	360/77.06	360/31;		Teo, SongWee et al.									
10	P		US 6765744 B2	20040720		Track pitch control using head offset measurement for	360/75	360/31;		Gomez, Kevin Arthur et al.									
11	P		US 6754030 B2	20040622		Optimal reader-to-writer offset measurement of a head	360/76	360/31;		Seng, Edmund Chian Song et al.									
12	P		US 6700731 B2	20040302		In-situ linearization of magnetic read/write head	360/77.08	360/77.04		Chaw, Kok-Kia									
13	P		US 6690538 B1	20040210		Disk drive device and access sequence therefor	360/78.08			Saito, Tomoaki et al.									
14	P		US 6597530 B2	20030722		Method and apparatus for disk drive seek control	360/78.14	360/77.04		Asano, Hideo et al.									
15	P		US 6519107 B1	20030211		Hard disk drive having self-written servo burst	360/75			Shrlich, Richard M. et al.									
16	P		US 6456451 B1	20020924		Method and apparatus for disk drive seek control	360/77.04	360/75;		Asano, Hideo et al.									
17	P		US 6025971 A	20000215		Magnetic disk drive using a nonvolatile solid state	360/77.08	360/48;		Inoue, Tetsuo et al.									
18	P		US 5796543 A	19980818		Data track pattern including embedded servo sectors for	360/77.08	360/53		Ton-That, Luan									
19	P		US 5786957 A	19980728		Magnetic disk device using non-aligned read and write	360/77.08	360/40		Inoue, Tetsuo et al.									
20	P		US 5587950 A	19961224		Data track pattern including embedded servo sectors for	360/77.08	360/77.06		Ton-that, Luan									
21	P		US 4445153 A	19840424		Method of correcting track misalignment of floppy disc	360/77.02	360/77.06		Fujimoto, Sakae et al.									
22	P		US 4371902 A	1															

Year	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099
1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	

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		Document ID	Issue Date	Pages	Title	Current OK	Current XRef	Retrieval C	Inventor	A	C	P	T		
25	P	US 6631046 B2	20031007		Servo track writing using extended copying with head	360/75	360/51; 360/77.07;		Szita; Gabor et al.						
26	P	US 6600620 B1	20030729		Self-servo writing a disk drive by propagating	360/75	360/51		Krounbi; Mohamed T. et al.						
27	P	US 6522488 B2	20030218		Servo information writing method and storage device	360/31	360/51; 360/53;		Sasamoto; Tatsuro et al.						
28	P	US 6519107 B1	20030211	21	Hard disk drive having self-written servo burst	360/75			Shrlich; Richard M. et al.						
29	P	US 6469859 B1	20021022		Method and system for accurate self-servowriting	360/75			Chainer; Timothy et al.						
30	P	US 6369974 B1	20020409		Disk drive with method of constructing a continuous	360/78.14	360/75		Angari; Saeed et al.						
31	P	US 6359749 B1	20020319		Dual element head with radial offset optimized for	360/121			Fukushima; Craig N.						
32	P	US 6344942 B1	20020205		Method and apparatus for absolute track spacing	360/75	360/78.04		Yarmchuk; Edward John						
33	P	US 6243223 B1	20010605		Disk drive with servo burst phasing for improved	360/77.08	360/77.02		Elliot; Timothy J. et al.						
34	P	US 6057977 A	20000502		Compact servo pattern optimized for M-R heads	360/77.08	360/77.11		Cunningham; Earl Albert						
35	P	US 6002541 A	19991214		Method and apparatus for providing a linear position	360/77.08	360/77.02		Belser; Karl Arnold et al.						
36	P	US 5982173 A	19991109		Method of characterizing and compensating for read head	324/212	324/202; 360/77.04		Hagen; Mark David						
37	P	US 5946157 A	19990831		Method of seamlessly recording circumferentially	360/75	360/68		Codilian; Raffi et al.						
38	P	US 5907447 A	19990625		Radial self-propagation pattern generation for disk	360/75	360/77.01; 360/77.08		Yarmchuk; Edward John et al.						
39	P	US 5875064 A	19990223		Method and system for accurate self-servowriting	360/75	360/77.05; 360/78.04		Chainer; Timothy et al.						
40	P	US 5844742 A	19981201		Radial self-propagation pattern generation for disk	360/75	360/77.08		Yarmchuk; Edward John et al.						
41	P	US 5796543 A	19980818	20	Data track pattern including embedded servo sectors for	360/77.08	360/48		Ton-That; Luan						
42	P	US 5793554 A	19980811		Self-servowriting system with dynamic error	360/75	360/77.08		Chainer; Timothy et al.						
43	P	US 5659436 A	19970819		Radial self-propagation pattern generation for disk	360/75	360/77.08		Yarmchuk; Edward John et al.						
44	P	US 5612833 A	19970318		Radial self-propagation pattern generation for disk	360/75	360/29		Yarmchuk; Edward J. et al.						
45	P	US 5587850 A	19961224	20	Data track pattern including embedded servo sectors for	360/77.08	360/77.06		Ton-That; Luan						
46	P	US 5381281 A	19950110		Disk drive system using multiple embedded quadrature	360/77.08			Shrinkle; Louis J. et al.						
47	P	US 5270886 A	19931214		Two motor servo system for a removable disk drive	360/78.05	360/77.03; 360/78.11;		Nigam; Anil K.						
48	P	US 4669004 A	19870526		High capacity disk file with embedded sector servo	360/53	360/73.03; 360/77.08;		Moon; Ronald R. et al.						
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U	I	Document ID	Issue Date	Pages	Title	Current US	Current UK	Retrieval C	Inventor	A	E
19	F	US 20020176199 A1	20021128	27	Track pitch control using head offset measurement for	360/75	360/76		Gomez, Kevin Arthur et al.	F	F
20	F	US 20020131188 A1	20020919		Magnetic disk drive	360/31	360/48		Hamaguchi, Takehiko et al.	F	F
21	F	US 20020105751 A1	20020808		Magnetic disk apparatus and servo signal recording	360/78.04	360/75		Yasuna, Kei et al.	F	F
22	F	US 20020101672 A1	20020801		Method for storage of self-servowriting timing	360/51	360/48		Chainer, Timothy J. et al.	F	F
23	F	US 20020071198 A1	20020613		Method to achieve higher track density by allowing	360/77.02	360/63		Liu, Xiong et al.	F	F
24	F	US 20020067567 A1	20020606	26	Correction of dynamic track spacing errors in storage	360/77.04	360/77.08		Szita, Gabor	F	F
25	F	US 20020050814 A1	20020502		Testing apparatus and method for testing magnetic head	324/210	324/212		Nezu, Takashi	F	F
26	F	US 20020039247 A1	20020404		Track pitch correction method and apparatus	360/76	360/77.02		Bi, Qiang et al.	F	F
27	F	US 20020036860 A1	20020328	21	Method for linearizing microactuator hysteresis for	360/77.05	360/75		Bi, Qiang et al.	F	F
28	F	US 20020036858 A1	20020328		Writing servo sectors to a disc drive using offset	360/75	360/78.04		Bi, Qiang et al.	F	F
29	F	US 20010040752 A1	20011115	19	Servo track writing using extended copying with head	360/77.04	360/77.08		Szita, Gabor et al.	F	F
30	F	US 20010033447 A1	20011025	9	Method and apparatus for writing clock data to a	360/48	360/51		Miles, Michael A.	F	F
31	F	US 20010022702 A1	20010920		Head position control method for a disk device and the	360/77.02	360/63		Takaishi, Kazuhiko et al.	F	F
32	F	US 20010009484 A1	20010726		Methods and systems for self-servowriting including	360/75	360/48		Chainer, Timothy J. et al.	F	F
33	F	US 20010000302 A1	20010419	38	Servo information writing method and storage device	360/31	360/53		Sasamoto, Tatsuro et al.	F	F
34	F	US 6888696 B2	20050503		Magnetic disk apparatus and servo signal recording	360/78.04	360/77.02		Yasuna, Kei et al.	F	F
35	F	US 6819519 B2	20041116		Head position control method for a disk device and the	360/77.02	360/63		Takaishi, Kazuhiko et al.	F	F
36	F	US 6785084 B2	20040831	25	Correction of dynamic track spacing errors in storage	360/77.04	360/77.08		Szita, Gabor	F	F
37	F	US 6765744 B2	20040720	26	Track pitch control using head offset measurement for	360/75			Gomez, Kevin Arthur et al.	F	F
38	F	US 6765737 B1	20040720		Variable track densities on a recording medium to	360/48	360/77.04		Lim, Choonkiat et al.	F	F
39	F	US 6760184 B1	20040706	26	Compact servo pattern optimized for M-R heads	360/77.08			Cunningham, Earl Albert	F	F
40	F	US 6751042 B2	20040615		Track pitch correction method and apparatus	360/77.02	360/75		Bi, Qiang et al.	F	F
41	F	US 6735031 B2	20040511		Method for storage of self-servowriting timing	360/51	360/48		Chainer, Timothy J. et al.	F	F
42	F	US 6717760 B2	20040406		Magnetic disk drive	360/31	360/46		Hamaguchi, Takehiko et al.	F	F
43	F	US 6714369 B2	20040330	9	Method and apparatus for	360/51	360/75		Miles, Michael A.	F	F

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u	i	Document ID	Issue Date	Pages	Title	Current OR	Current XRef	Retrieval C	Inventor	u	c	p	s	i	h	
43	P	US 6714369 B2	20040330	9	Method and apparatus for writing clock data to a	360/51	360/75; 360/76		Miles; Michael A.							
44	P	US 6700731 B2	20040302	15	In-situ linearization of magnetic read/write head	360/77.08	360/77.04		Chew; Kok-Kia							
45	P	US 6700730 B1	20040302	13	Method of using an integral parameter for correct	360/77.04	360/78.09		Ohzeki; Hideki et al.							
46	P	US 6696831 B2	20040224		Testing apparatus and method for testing magnetic head	324/210	324/212		Nozu; Takashi							
47	P	US 6693763 B2	20040217	20	Method for linearizing microactuator hysteresis for	360/77.05	360/75; 360/78.09		Bi; Qiang et al.							
48	P	US 6693760 B1	20040217	16	Preamplifier circuit configurable to allow	360/75	360/51; 360/67		Krounbi; Mohamed T. et al.							
49	P	US 6643082 B1	20031104		Servo sector format for a patterned media	360/48	360/51; 360/77.08		Belsar; Karl A.							
50	P	US 6633451 B1	20031014		Self-servo-writing timing pattern generation with	360/75			Chainer; Timothy J. et al.							
51	P	US 6631046 B2	20031007	18	Servo track writing using extended copying with head	360/75	360/51; 360/77.07		Szita; Gabor et al.							
52	P	US 6611396 B1	20030826		Disk level servo write	360/77.04			Kermiche; Noureddine et al.							
53	P	US 6600620 B1	20030729	17	Self-servo writing a disk drive by propagating	360/75	360/51		Krounbi; Mohamed T. et al.							
54	P	US 6522488 B2	20030218	37	Servo information writing method and storage device	360/31	360/51; 360/53		Sasamoto; Tatsuro et al.							
55	P	US 6519107 B1	20030211	21	Hard disk drive having self-written servo burst	360/75			Shrlich; Richard M. et al.							
56	P	US 6510017 B1	20030121		Calibration of reader/writer offset in a disc drive	360/77.04			Abdelnour; Ghassan M.							
57	P	US 6469859 B1	20021022	21	Method and system for accurate self-servowriting	360/75			Chainer; Timothy et al.							
58	P	US 6429989 B1	20020806		Method for self-servowriting timing propagation	360/51	360/77.08; 360/78.14		Schultz; Mark D. et al.							
59	P	US 6369974 B1	20020409	28	Disk drive with method of constructing a continuous	360/78.14	360/75		Asgari; Saeed et al.							
60	P	US 6359749 B1	20020319	10	Dual element head with radial offset optimized for	360/121			Fukushima; Craig N.							
61	P	US 6344942 B1	20020205	21	Method and apparatus for absolute track spacing	360/75	360/78.04		Yarmchuk; Edward John							
62	P	US 6320718 B1	20011120		Disk drive with zero read offset in reserved area and	360/77.04	360/77.08		Bouwkamp; Timothy D. et al.							
63	P	US 6301071 B1	20011009		Methods and systems for self-servowriting including	360/75			Chainer; Timothy Joseph et al.							
64	P	US 6292320 B1	20010918		Disk drive with dual stage actuator radial offset	360/63	360/76; 360/77.04		Mason; Jeffrey E. et al.							
65	P	US 6275350 B1	20010814		Magnetic head and method for compensating for magnetic	360/77.12	360/121		Barndt; Richard D.							
66	P	US 6249399 B1	20010619		Methods and systems for self-servowriting including	360/75			Chainer; Timothy Joseph et al.							
67	P	US 6243223 B1	20010605	17	Disk drive with servo burst	360/77.08	360/77.02		Elliot; Timothy J. et al.							
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57	P	U	US 6243223 B1	20010605	17	Disk drive with servo burst phasing for improved	360/77.08	360/77.02	Retrieval	Elliott, Timothy J. et al.										
58	P	U	US 6198584 B1	20010306		Disk drive with staggered calibration bursts that are	360/48	360/75; 360/77.08		Codilian, Raffi et al.										
59	P	U	US 6166875 A	20001226		Method of positionally controlling a	360/77.04	360/78.14		Ueno, Takahisa et al.										
70	P	U	US 6151289 A	20001121		Multibyte random access mass storage/memory system	369/95	369/112.08; 369/116;		Rope, Ronald E. et al.										
71	P	U	US 6101063 A	20000808		Methods and systems for self-servowriting including	360/75			Chainer, Timothy Joseph et al.										
72	P	U	US 6091564 A	20000718		Disk drive with calibration bursts that are recorded on	360/75	360/48; 360/57;		Codilian, Raffi et al.										
73	P	U	US 6057977 A	20000502	24	Compact servo pattern optimized for M-R heads	360/77.08	360/77.11		Cunningham, Earl Albert										
74	P	U	US 6052250 A	20000410		Disk drive with separately determined servo and data	360/77.08	360/78.14		Golowka, Daniel et al.										
75	P	U	US 6035351 A	20000307		Storage of user defined type file data in corresponding	710/74	360/48; 369/111;		Billings, Russell Allen et al.										
76	P	U	US 6031680 A	20000229		Methods and systems for self-servowriting including	360/75	360/77.08		Chainer, Timothy Joseph et al.										
77	P	U	US 6005738 A	19991221		Methods and systems for self-servo-writing including	360/75	360/77.08		Chainer, Timothy Joseph et al.										
78	P	U	US 6002541 A	19991214	16	Method and apparatus for providing a linear position	360/77.08	360/77.02		Belser, Karl Arnold et al.										
79	P	U	US 5982173 A	19991109	22	Method of characterizing and compensating for read head	324/212	324/202; 360/77.04		Hagen, Mark David										
80	P	U	US 5946157 A	19990831	17	Method of seamlessly recording circumferentially	360/75	360/68		Codilian, Raffi et al.										
81	P	U	US 5907447 A	19990525	34	Radial self-propagation pattern generation for disk	360/75	360/77.01; 360/77.08		Yarmchuk, Edward John et al.										
82	P	U	US 5875064 A	19990223	19	Method and system for accurate self-servowriting	360/75	360/77.05; 360/78.04		Chainer, Timothy et al.										
83	P	U	US 5844742 A	19981201	30	Radial self-propagation pattern generation for disk	360/75	360/77.08		Yarmchuk, Edward John et al.										
84	P	U	US 5815482 A	19980929		Multibyte random access mass storage/memory system	369/112.05	369/112.16; 369/112.29;		Rope, Ronald E. et al.										
85	P	U	US 5796543 A	19980818	20	Data track pattern including embedded servo sectors for	360/77.08	360/48		Ton-That, Luan										
86	P	U	US 5796542 A	19980818		Servo-track writer system having a plurality of	360/77.02	360/75; 360/98.02;		Szeremeta, Wally										
87	P	U	US 5793555 A	19980811		Seek optimization for disk files with side-by-side head	360/75	360/61; 360/62;		Belser, Karl Arnold et al.										
88	P	U	US 5793554 A	19980811	18	Self-servowriting system with dynamic error	360/75	360/77.08		Chainer, Timothy et al.										
89	P	U	US 5781360 A	19980714		Method and apparatus for detecting data track	360/77.08	360/77.02; 360/77.04		Wilson, Rosser S. et al.										
90	P	U	US 5757574 A	19980526		Methods and systems for self-servowriting including	360/75	360/77.08		Chainer, Timothy Joseph et al.										
91	P	U	US 5682274 A	19971028		Method and apparatus for	360/77.04	360/77.08		Brown, Dana Henry et al.										
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		Document ID	Issue Date	Pages	Title	Current US	Current XRef	Retrieval C	Inventor		
85	P	US 5796543 A	19980818	20	Data track pattern including embedded servo sectors for	360/77.08	360/48		Ton-That; Luan		
86	P	US 5796542 A	19980818		Servo-track writer system having a plurality of	360/77.02	360/75; 360/90.02;		Szeremeta; Wally		
87	P	US 5793555 A	19980811		Seek optimization for disk files with side-by-side head	360/75	360/61; 360/62;		Belser; Karl Arnold et al.		
88	P	US 5793554 A	19980811	18	Self-servowriting system with dynamic error	360/75	360/77.08		Chainer; Timothy et al.		
89	P	US 5781360 A	19980714		Method and apparatus for detecting data track	360/77.08	360/77.02; 360/77.04		Wilson; Rosser B. et al.		
90	P	US 5757574 A	19980526		Methods and systems for self-servowriting including	360/75	360/77.08		Chainer; Timothy Joseph et al.		
91	P	US 5682274 A	19971028		Method and apparatus for positioning transducers to	360/77.04	360/77.08		Brown; Dana Henry et al.		
92	P	US 5659436 A	19970819	32	Radial self propagation pattern generation for disk	360/75	360/77.08		Yarmchuk; Edward John et al.		
93	P	US 5612833 A	19970318	31	Radial self-propagation pattern generation for disk	360/75	360/29		Yarmchuk; Edward J. et al.		
94	P	US 5587050 A	19961224	20	Data track pattern including embedded servo sectors for	360/77.08	360/77.06		Ton-That; Luan		
95	P	US 5500776 A	19960319		Self-calibration for computer disk read/write	360/77.04	360/76; 360/77.08		Smith; Robert F.		
96	P	US 5446600 A	19950829		Electronically alignable flexible disk drive	360/46			Galloway; Gregory M. et al.		
97	P	US 5381281 A	19950110	19	Disk drive system using multiple embedded quadrature	360/77.08			Shrinkle; Louis J. et al.		
98	P	US 5333084 A	19940726		Electronically alignable flexible disk drive	360/77.07	360/69; 360/77.02;		Galloway; Gregory M. et al.		
99	P	US 5321570 A	19940614		Systems using superimposed, orthogonal buried servo	360/121	360/77.07; 360/77.12		Behr; Michael I. et al.		
100	P	US 5293281 A	19940308		Method of reading and writing data transitions on	360/77.07	360/76; 360/77.12		Behr; Michael I. et al.		
101	P	US 5270886 A	19931214	17	Two motor servo system for a removable disk drive	360/78.05	360/77.03; 360/78.11;		Nigam; Anil K.		
102	P	US 5223994 A	19930629		System using superimposed, orthogonal buried servo	360/77.12	360/77.07		Behr; Michael I. et al.		
103	P	US 5132861 A	19920721		Systems using superimposed, orthogonal buried servo	360/121	360/77.07; 360/77.12		Behr; Michael I. et al.		
104	P	US 4739239 A	19890419		Bipolar motor control	318/685	318/567; 318/696;		Krause; James N. et al.		
105	P	US 4669004 A	19870526	39	High capacity disk file with embedded sector servo	360/53	360/73.03; 360/77.08;		Moon; Ronald R. et al.		
106	P	US 4578766 A	19860325		Track pitch calibration system for use in optical	369/44.26	347/248; 369/111;		McIntosh; Robert et al.		
107	P	US 4577301 A	19860318		Track pitch calibration error reduction	369/44.31	369/111; 369/275.3;		Mathews; Harlan P. et al.		
108	P	US 4371902 A	19830201	7	Disk initialization method	360/75	360/77.03; 360/77.08		Baxter; Duane W. et al.		

